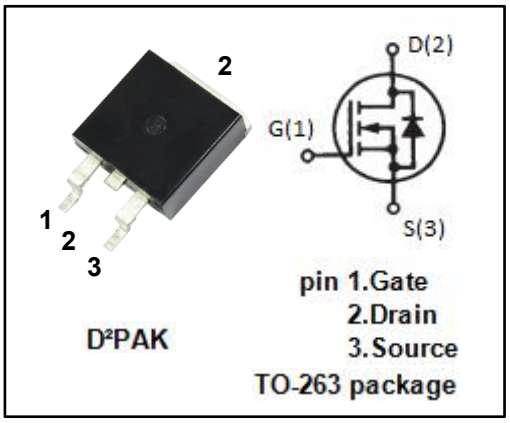
isc N-Channel MOSFET Transistor FS5VS-9



FEATURES

·Drain Current -I_D=5A@ T_C=25℃

·Drain Source Voltage -V_{DSS}=450V(Min)

·Static Drain-Source On-Resistance

-$R_{DS(on)}$ =1.4Ω(Max)

DESCRIPTION

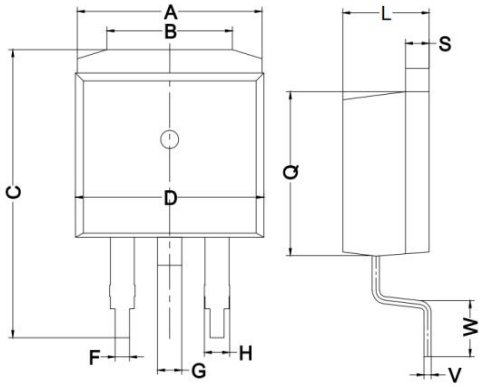
• Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	450	V
V_{GS}	Gate-Source Voltage-Continuous	±30	V
I_D	Drain Current-Continuous	5	A
I_{DM}	Drain Current-Single Pluse	15	A
P_D	Total Dissipation @T_C=25℃	90	W
T_J	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	1.39	℃/W



DIM	mm		
	MIN	TYP.	MAX
A	9.80	10.00	10.20
B	6.60	6.70	6.80
C	15.10	15.20	15.30
D	9.60	9.80	10.00
F	0.70	0.80	0.90
G	1.26	1.28	1.30
H	1.20	1.33	1.45
L	4.40	4.50	4.60
Q	9.20	9.25	9.30
S	1.25	1.30	1.35
V	0.40	0.50	0.60
W	2.60	2.70	2.80

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ELECTRICAL CHARACTERISTICS（T_C=25℃ unless otherwise specified）

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V_{GS}= 0; I_D=1mA	450	--	--	V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= 1mA	2.0	3.0	4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}=10V; I_D=2A	--	1.1	1.4	Ω
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±25V;V_{DS}= 0	--	--	±10	mA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}=450V; V_{GS}= 0	--	--	1	mA
V_{SD}	Forward On-Voltage	I_S=2A; V_{GS}= 0	--	1.5	2.0	V

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